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APPLICANT: MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR:

KUGIMIYA KOICHI;

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TITLE

OXIDE MAGNETIC BODY MATERIAL

ABSTRACT :

PURPOSE: To reduce the magnetic loss in the high-frequency band by a method wherein specific amount of CaO and SiO2 as the sub-components are added to MnZn base ferrite containing Fe₂O₃, ZnO, MnO as the man-components and then specific amount of metallic oxide and specific amount of rare earth metallic oxide are compositely added thereto.

CONSTITUTION: The oxide magnetic body material is a sintered body wherein 53≤Fe₂O₃≤57mol%, 3≤ZnO≤9mol% and the residual mol% of MnO as the main-components as well as 0.05≤CaO≤0.3wt.%, 0.005≤SiO₂≤0.05wt.% as the sub-components are to be contained without fail while at least one or more elements selected from respective 0.01-0.2wt.% of Ta₂O₅, ZrO₂, Ga₂O₃, GeO₂, Cr₂O₃, SbO₃, Al_2O_3 , HfO_2 , MoO_3 , In_2O_3 , WO_3 , Bi_2O_3 , SnO_2 and $0.05 \le TiO_2 \le 0.5$ wt.% as well as at least one or more elements of the oxide of rare earth metal exceeding 0.005wt.% but not exceeding 0.2wt.% are to be contained. Through these procedures, the title oxide magnetic body material having excellent temperature characteristics can be manufactured at low magnetic loss.

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